AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Original claims 1-8: (Cancelled)

- 9. (New) A method of welding a sintered aluminum alloy, characterized by friction stir welding sintered pieces prepared by pressure sintering rapid-solidified aluminum alloy powder.
- 10. (New) The welding method of claim 9, wherein the sintered pieces are composite material prepared by pressure sintering a mixture of rapid-solidified aluminum alloy powder with ceramic particle.
- 11. (New) The welding method of claim 10, wherein the ceramic particle has an average particle diameter of $10 \mu m$ or less.
- 12. (New) The welding method defined by claim 9, wherein the friction stir welding is performed using a welding tool having a radius of shoulder within a range of 6-25 mm provided with a rotating pin of 3-10 mm in length and 3-10 mm in diameter under conditions of: a rotation rate of the rotating pin within a range of 500-3000 r.p.m., a travel speed within a range of 200-1000 mm/minute and a pushing depth of a rotator shoulder within a range of 0-1 mm.
- 13. (New) The welding method defined by claim 10, wherein a welding aid, made of an aluminum alloy dispersing the same ceramic particle as in the sintered piece, is sandwiched between or mounted on the sintered pieces, and friction stir welded together with the sintered pieces.
- 14. (New) The welding method defined by claim 10, wherein the sintered pieces are friction stir welded together with a welding aid, made of an aluminum alloy free of ceramic particle, being sandwiched between or mounted on the sintered pieces.

Application No. Not Yet Assigned Paper Dated: May 12, 2005

In Reply to USPTO Correspondence of N/A

Attorney Docket No. 2204-051342

15. (New) The welding method of claim 13, wherein the welding aid has a T- or H-shaped section, a vertical wall of the T-shaped section or a web of the H-shaped section being sandwiched between the sintered pieces.

16. (New) The welding method of claim 15, wherein the welding aid comprises a first part to be sandwiched between the sintered pieces and another part not to be sandwiched between the sintered pieces, the first part having a ratio of ceramic particles different from the other part.

17. (New) The welding method of claim 14, wherein the welding aid has a T- or H-shaped section, a vertical wall of the T-shaped section or a web of the H-shaped section being sandwiched between the sintered pieces.

18. (New) The welding method of claim 17, wherein the welding aid comprises a first part to be sandwiched between the sintered pieces and another part not to be sandwiched between the sintered pieces, the first part having a ratio of ceramic particles different from the other part.